NSF ARCTIC Data Center

The Arctic Data Center

► CSCCE Community Profile
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Last updated on 10 September 2020

COMMUNITY OVERVIEW

The Arctic Data Center is an infrastructure organization that supports the Arctic research community. Created in 2016, with funding from the U.S. National Science Foundation (NSF), the Arctic Data Center follows from the work of CADIS and ACADIS. The website is a place for researchers from around the world who are working in the Arctic to efficiently share, discover, access, and interpret complex data about the Arctic with less effort. Based out of the National Center for Ecological Analysis and Synthesis, roughly 3000 members of the NSF-funded Arctic research community interact with the Arctic Data Center via the support team for submitting datasets, through the training / outreach team for data science training, with each other at in-person conferences, online with the data catalog, through social media, and with other communication channels.

► DATA SCIENCE
► INTERDISCIPLINARY
► KNOWLEDGE GENERATION
► OUTREACH AND EXTERNAL COMMUNICATION
► INFRASTRUCTURE DEVELOPMENT
► PROFESSIONAL DEVELOPMENT
► SKILLS DEVELOPMENT
► ACADEMIA-POLICY INTERFACE

► Website: arcticdata.io

COMMUNITY BASICS

3000
3000 core members with a broader group of many thousands

Mostly online with some in-person events

International

Open

Infrastructure organization
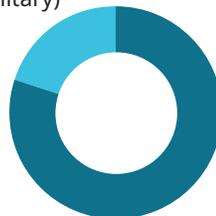
These numbers are an estimate

COMMUNITY STRUCTURE

Community Management
Community management is provided by 1 FTE **Community Engagement and Outreach Coordinator** and 0.2 FTE **Co-PI / Director of Learning and Outreach**. Additionally, a **data fellow** assists on projects.

Members

20%
Other (international / NGO / military)

80%
Academics

Community Configuration

Arctic Data Center

ARCTIC Data Center | NSF

The Arctic Data Center
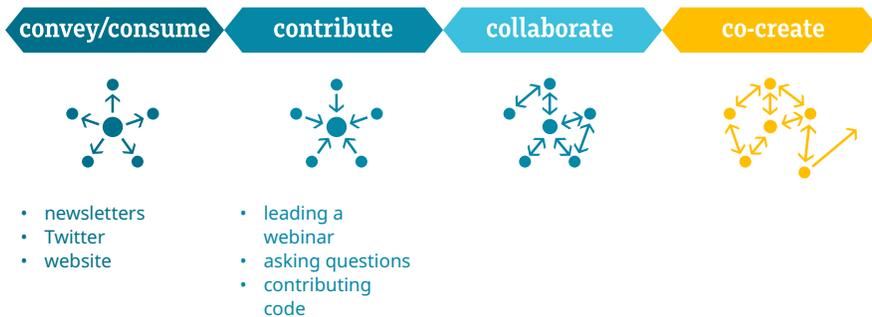
PROGRAMMING

The CSCCE Community Participation Model describes four modes of member engagement that can occur within a community: CONVEY/CONSUME, CONTRIBUTE, COLLABORATE, and CO-CREATE. All modes may be present at once, with some members interacting in multiple modes - or a community may have member engagement that falls into only some of the modes described. The model enables the mapping of community member behaviors to programming and other infrastructural support that the community manager, convening organization, or funder may provide to the community. For more information, see the CSCCE community participation model.

IN THIS COMMUNITY

Online activities include data submissions / asking questions about data submission, trainings, and workshops. Offline activities include workshops, conferences, and trainings.

convey/consume	contribute	collaborate	co-create

- newsletters
- Twitter
- website

- leading a webinar
- asking questions
- contributing code

OUTPUTS & EVALUATION

✓ Success looks like more researchers depositing data, especially from historically underrepresented disciplines like the social sciences, and more users downloading, reusing, and citing the data in new papers or synthesis work.

Evaluation and Reporting

- External evaluator
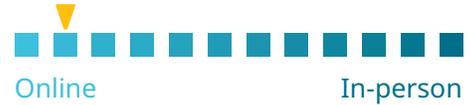- Reports for leadership or funders

Opportunities

- Launch new program
- Create formal champion program

Challenges

- Low member activity

Successes over the last year

- **Productivity** – co-creating community outputs
- **Engagement** – in-person and online events
- **Engagement** – increased activity of members
- **Recognition** – members see value
- **Recognition** – awards/articles/invitations

Online ▮▮▮▮▮▮▮▮▮ In-person

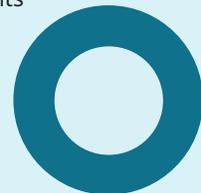### COMMUNITY TOOLBOX

Communications

Email	Twitter
Slack	Zoom
Blog	GitHub
Wordpress	

Productivity

R	Doodle
RStudio	Google Drive
Metadata Editor	Google Analytics
Data Catalog	Mentimeter

FUNDING

100%
Grants

Funding Streams

- 100% Grant (National Science Foundation Office of Polar Programs)

*Members can apply for **fully funded training events online or in-person** through the Arctic Data Center.*